MAIN CHANGES

- Enable or disable ADR per end-device
- New RNC KPIs based on LNS information (see next slide)
- New malicious ssh login attempts on a gateway statistic
- Export each statistics to csv
- Show and hide columns of last RX messages
- Provide tickets per customer as input for a billing engine
- Spectrum
  - Export to csv
  - Remove the 600s duration limit
- Provide new set of APIs to send and receive by devEUI
- Search gateways by name
- Validate e-mail when creating an user
- Notification centre
  - Group notifications
- Delete random profile value for end-devices
  - The ramdom value is replaced by the vehicule value during the upgrade
- Remove application logs
  - All the logs are now centralized on the server using syslog
- Configure the content-type per cluster

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RNC KPIS

NEW FEATURES

Available KPIs by entity

UPLINK

KPI	Customer	Station	Endpoint
Number of uplink messages	✓	✓	✓
Total size of uplink messages	✓	✓	✓
Uplink channel RSSI	✓	✓	·
Uplink signal RSSI	✓	✓	·
Uplink SNR	✓	✓	·
Uplink message time on air	✓	✓	✓
Ratio of uplink message time on air	✓	✓	✓
Uplink message time on air by channel	·	·	✓
Ratio of uplink message time on air by channel	·	·	✓
Uplink message time on air by spreading factor	·	·	✓
Ratio of uplink message time on air by spreading factor	·	·	✓

DOWNLINK

KPI	Customer	Station	Endpoint
Number of downlink messages	✓	✓	✓
Total size of downlink messages	✓	✓	✓
Downlink message time on air	✓	✓	✓
Ratio of downlink message time on air	✓	✓	✓
Downlink message time on air by channel	✓	✓	·
Ratio of downlink message time on air by channel	✓	✓	·
Downlink message time on air by spreading factor	✓	✓	·
Ratio of downlink message time on air by spreading factor	✓	✓	·

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MAIN IMPROVEMENTS

BUGS FIXED

- RX timestamp is available when GPS is not locked
- Unknown gateway interface label is no more displayed
- Display Wan RSSI with a dBm scale
- Improve spectrum analysis history storage
- Add a customer criteria in the users' filter
- Fix the statistic "Percentage of uplink messages in error"
- Improve workflow with software update task
- Improve robustness of endpoints creation and deletion
- Display more information using current version
- Cluster push URL is no more mandatory
- Improve mega-package ability to deal with different configurations
- MIC error is displayed on endpoints with a bad NwkSKey
- Fix spectrum frequencies band for Asian stations
- PSU voltage values are available for Wirnet iFemtoCell
- Fix export of large number of endpoints
- Update GPS and door status every hour
- The "Dev addr" criteria takes OTAA values in the LNS endpoints' filter
- The EUI criteria works if "All Fleets" is selected in the BSC stations' filter

Release Note   4

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RESTRICTIONS

MAIN RESTRICTIONS

- Trusted Key Management is not fully supported
- VPN IP address modification is not displayed on dashboard
- Spectrum analysis is not supported on Wirnet iFemtoCells
- LNS alarms can be viewed only by the superadmin role
- Dashboard timeout on large file upload with slow connections

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